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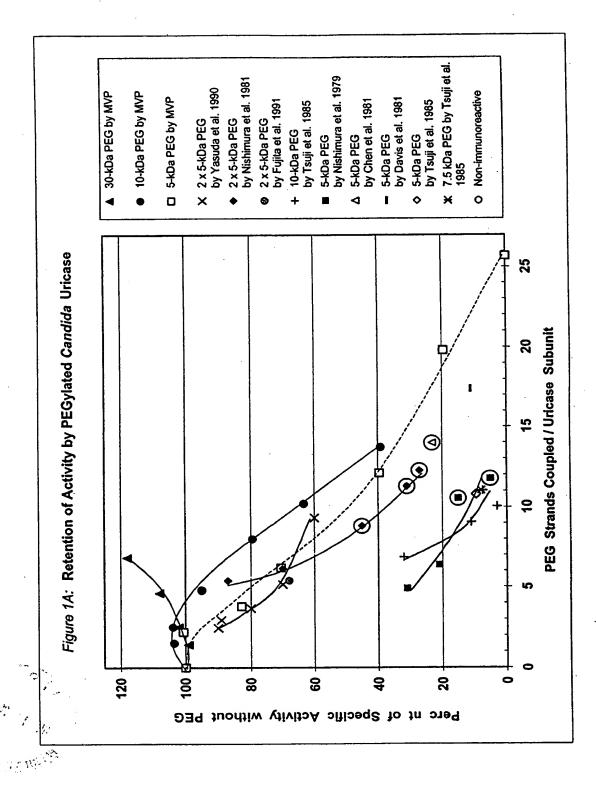
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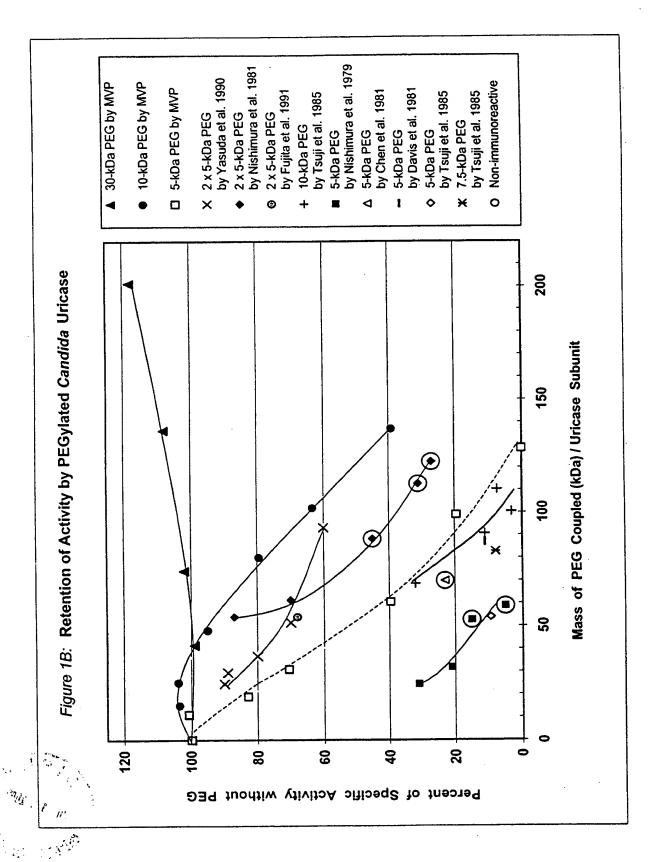
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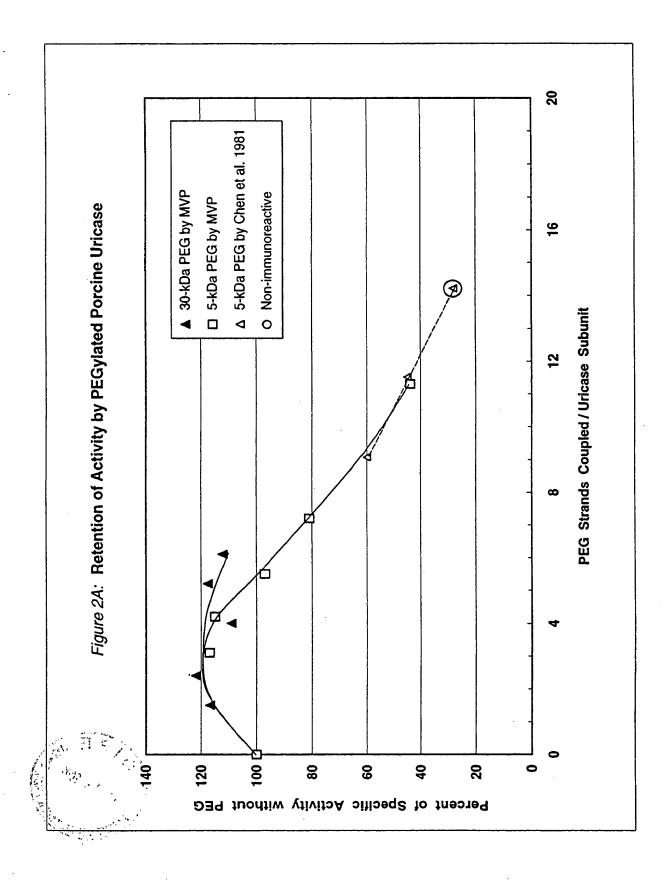
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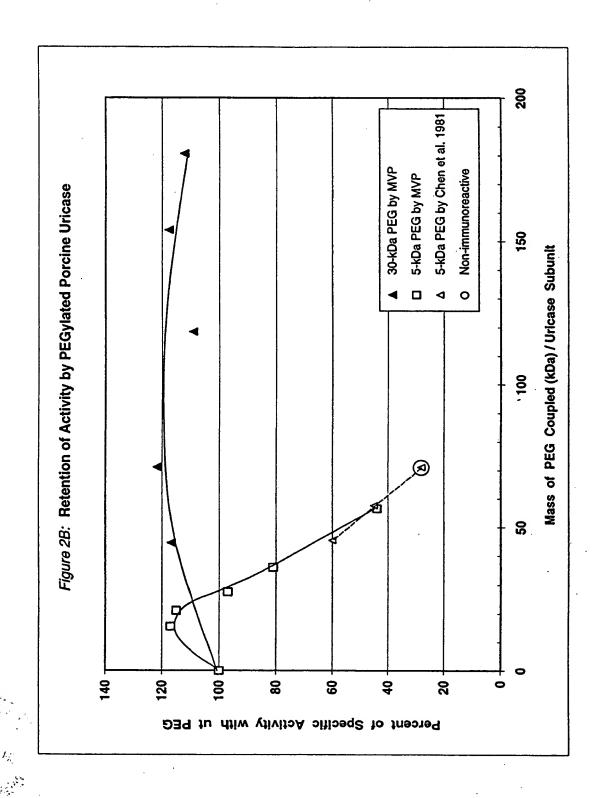
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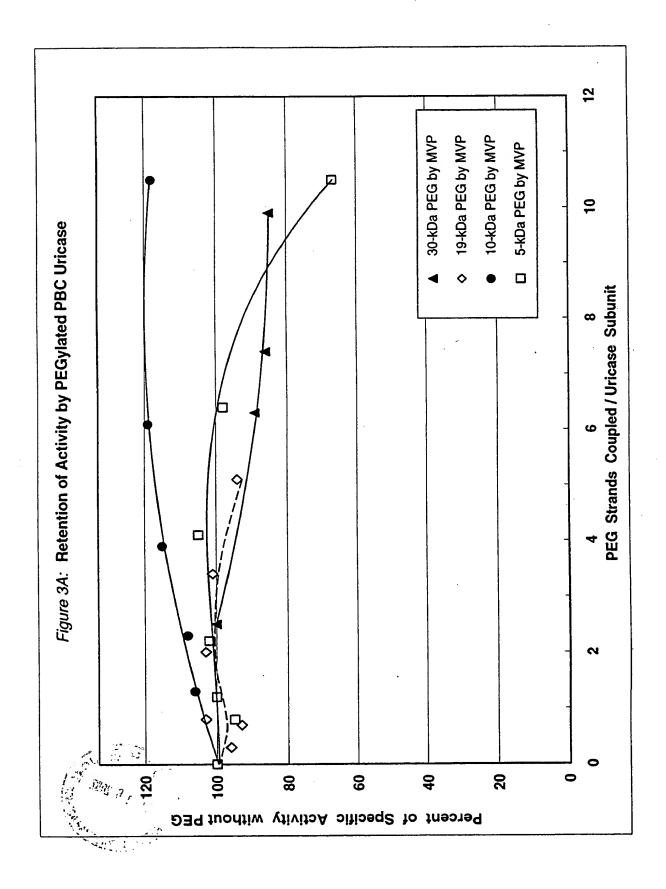


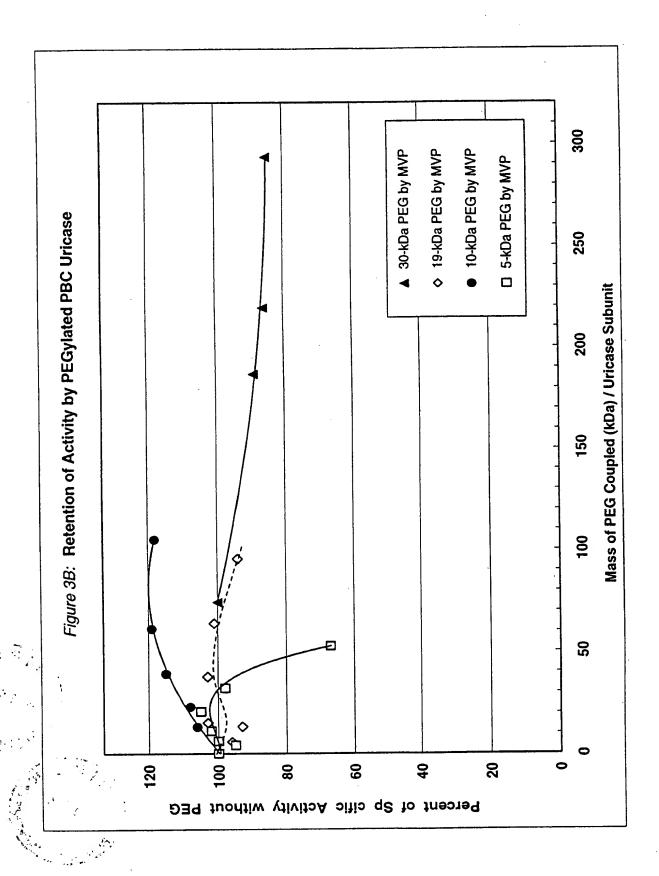


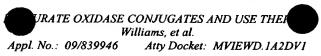
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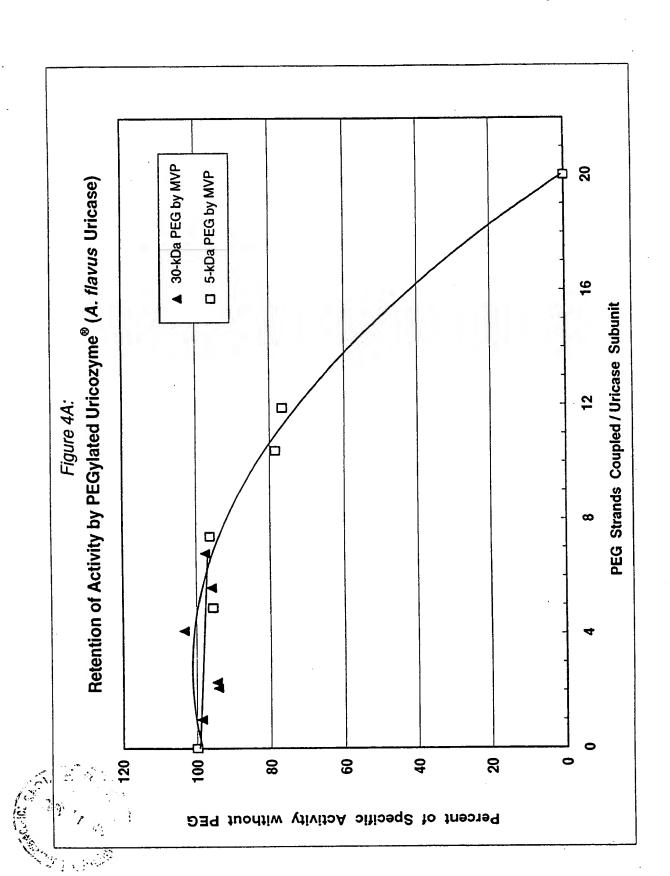


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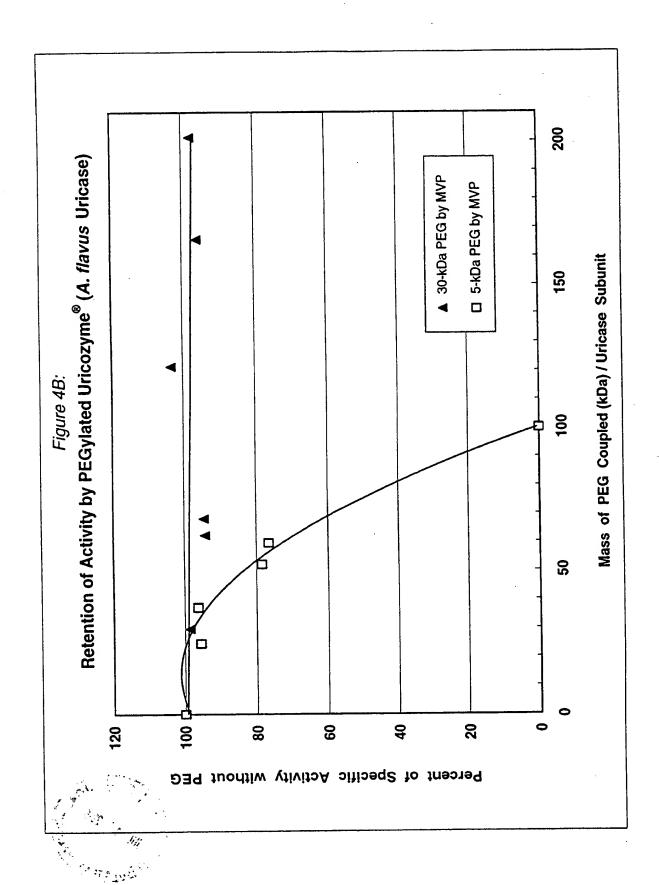




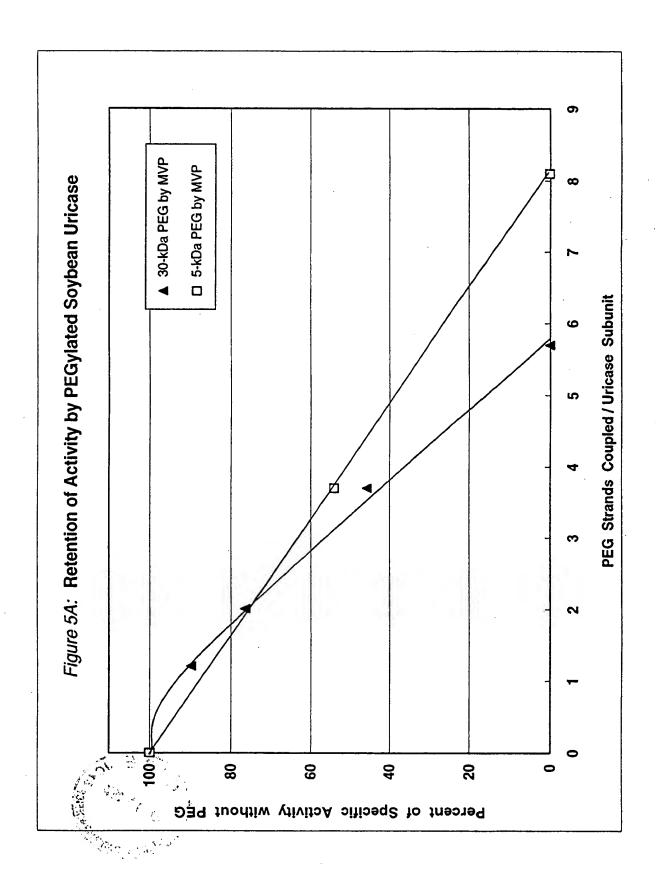


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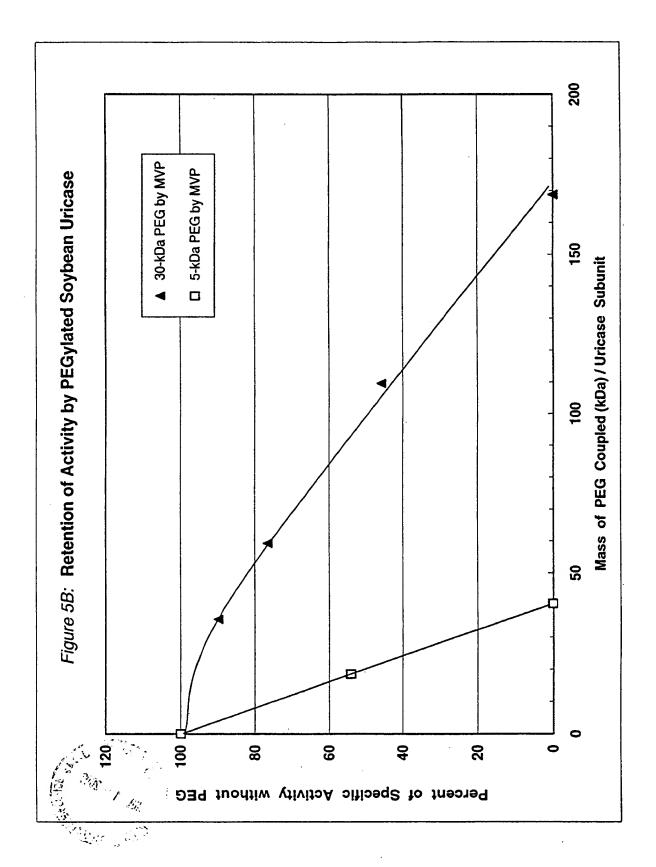


Figure 6: Deduced amino acid sequences of Pig-Baboon Chimeric (PBC) uricase, PBC uricase that is truncated at the amino and carboxyl terminals (PBC-NT-CT) and Porcine uricase containing the mutations R291K and T301S (PKS Uricase) (SEQ ID NO:3), compared with the porcine sequence (SEQ ID NO: 1) and baboon sequence (SEQ ID NO: 2)

2)				
Porcine	MAHYRNDYKK NDEVEFVRTG	YGKDMIKVLH	IQRDGKYHSI	40
PBC	porcine sequence 1-225	$\rightarrow$		40
PBC-NT-CT	porcine sequence	1-219 →		34
PKS	porcine sequence 1-288	<b>→</b>		40
Baboon	MADYHNNYKK NDELEFVRTG	YGKDMVKVLH	IQRDGKYHSI	40
Porcine	KEVATSVQLT LSSKKDYLHG	DNSDVIPTDT	IKNTVNVLAK	80
PBC	porcine sequence $ ightarrow$			80 74
PBC-NT-CT	porcine sequence $\rightarrow$			80
PKS	porcine sequence →	DATES T T DOTTO	IKNTVHVLAK	80
Baboon	KEVATSVQLT LSSKKDYLHG	DNSDIIPTDT		120
Porcine	FKGIKSIETF AVTICEHFLS	SFKHVIRAQV	YVEEVPWKRF	120
PBC	porcine sequence →			114
PBC-NT-CT	porcine sequence →			120
PKS	porcine sequence → FKGIKSIEAF GVNICEYFLS	SFNHVIRAQV	YVEEIPWKRL	120
Baboon			PVIHSGIKDL	160
Porcine	EKNGVKHVHA FIYTPTGTHF	CEVEQIRNGP	PVINSGIRDI	160
PBC	porcine sequence →			154
PBC-NT-CT	porcine sequence →			160
PKS	porcine sequence →	an	DUZUGGIVDI	160
Baboon	EKNGVKHVHA FIHTPTGTHF	CEVEQLRSGP	PVIHSGIKDL	
Porcine	KVLKTTQSGF EGFIKDQFTT	LPEVKDRCFA	TQVYCKWRYH	200
PBC	porcine sequence $ ightarrow$			200
PBC-NT-CT	porcine sequence $ ightarrow$			194
PKS	porcine sequence $ ightarrow$		•	200
Baboon	KVLKTTQSGF EGFIKDQFTT	LPEVKDRCFA	TQVYCKWRYH	200
Porcine	QGRDVDFEAT WDTVRSIVLQ	KFAGPYDKGE	YSPSVQKTLY	240
PBC	porcine sequence	3	ooon sequence	240
PBC-NT-CT	porcine sequence	$\rightarrow \mid \leftarrow bal$	boon sequence	234
PKS	porcine sequence →		ranavarmi v	240 240
Baboon	QCRDVDFEAT WGTIRDLVLE	KFAGPYDKGE	YSPSVQKTLY	
Porcine	DIQVLTLGQV PEIEDMEISL	PNIHYLNIDM	SKMGLINKEE	280 280
PBC	baboon sequence $ ightarrow$			274
PBC-NT-CT	baboon sequence →			280
PKS	porcine sequence →	PNIHYFNIDM	SKMGLINKEE	280
Baboon	DIQVLSLSRV PEIEDMEISL		SIGIGERIALE	
Porcine	VLLPLDNPYG RITGTVKRKL	TSRL 304		
PBC	baboon sequence →	295	•	
PBC-NT-CT	baboon sequence →			
PKS"	<pre></pre>	→ 304 SSRL 304		
Baboon	APPERDIALIG KIIGIAKKU	20111 204		

Days after First Injection

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Figure 7: Serum Uricase Activity 24 Hours after Each PEG-Uricase Injection, Relative to the First Injection

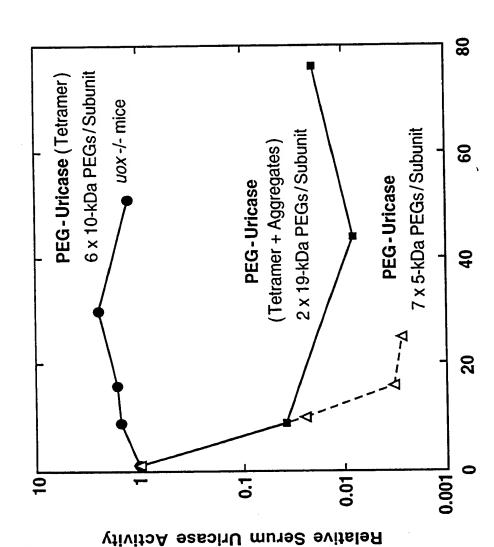
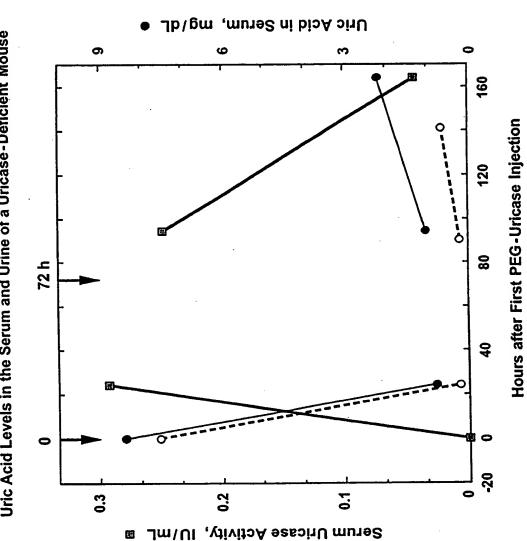


Figure 8: Inverse Relationship between Serum PEG-Uricase Activity and Uric Acid Levels in the Serum and Urine of a Uricase-Deficient Mouse



Uric Acid in Urine, mg/10 mL

Figure 9: Decreased Severity of Urine-Concentrating Defect

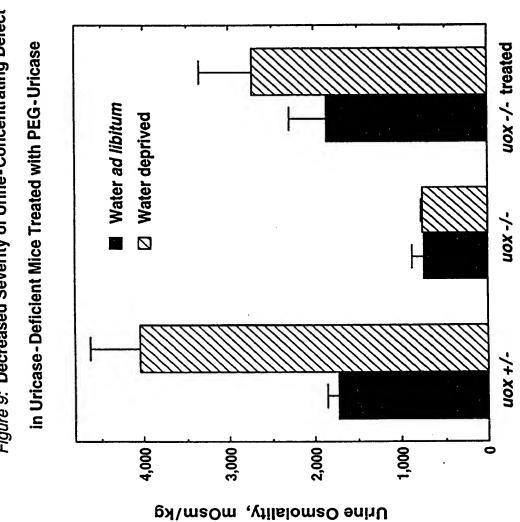


Figure 10: Decreased Severity of Nephrogenic Diabetes Insipidus in Uricase - Deficient Mice Treated with PEG-Uricase

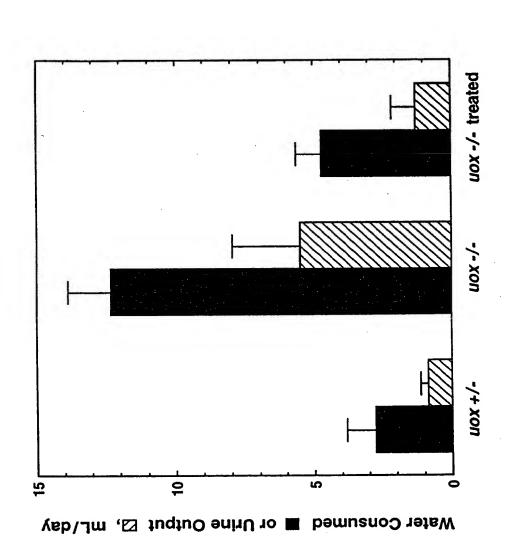
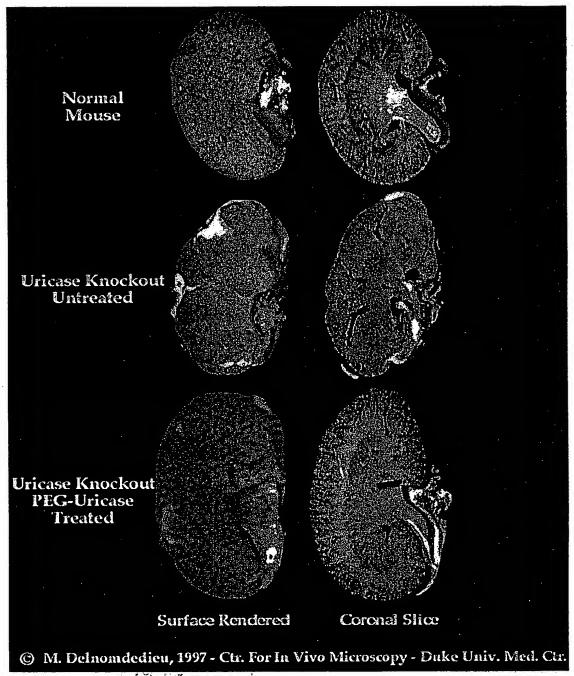






Figure 11:

Decreased Severity of Uric Acid-Induced Nephropathy after Treatment with PEG-Uricase, as Visualized by Magnetic Resonance Microscopy





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Figure 12: Clearance from the Circulation of BALB/c Mice of PBC Uricase Tetramer and Octamer Coupled to 5-6 Strands of 10-kDa PEG/Subunit

